

## REMARKS

In accordance with the foregoing, claims 14 and 24 are amended. Accordingly, claims 1, 3-5, 7-14, and 16-25, and 27-39 are pending and under consideration.

### Interview

Applicant thanks the Examiner for the courtesies extended to Applicant's attorney during the personal interview. Applicant respectfully requests that the Interview Summary dated October 4, 2007 be incorporated into this Supplemental Amendment.

### Objection to the Drawings Under 37 CFR 1.83(a)

The Office Action objects to the drawings under CFR 1.83(a) which states the drawings must show every feature of the invention specified in the claims. As indicated in the Interview Summary, the objection to the drawing is withdrawn.

Accordingly, withdrawal of the objection to the drawings is respectfully requested.

### Rejection of Claims 30-39 Under U.S.C. §112, First Paragraph

The Office Action rejects claims 30-39 under 35 U.S.C. §112, first paragraph, as failing to comply with the written description requirement. As indicated in the Interview Summary, the rejection of claims 30-39 under 35 U.S.C. §112, first paragraph is withdrawn.

Accordingly, withdrawal of this rejection is respectfully requested.

### Rejection of Claims 14, 24 and 30-39 Under 35 U.S.C. §112, Second Paragraph

The Office Action rejects claims 14, 24 and 30-39 under §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention. This rejection is respectfully traversed.

As indicated in the Interview Summary, the rejection of claims 30-39 under 35 U.S.C. §112, second paragraph is withdrawn.

During the personal interview, Applicant's attorney discussed claims 14 and 24 with the Examiner. Claims 14 and 24 have been amended to address the 35 U.S.C. §112, second paragraph rejection.

Accordingly, withdrawal of this rejection is respectfully requested.

Rejection of Claims 1, 3, 4, 9, 10, 27-31, and 38 Under 35 U.S.C. §103(a)

The Office Action rejects claims 1, 3, 4, 9, 10, 27-31, and 38 under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent 6,684,456 issued to Lee in view of U.S. Patent 4,853,750 issued to Murata et al. (hereinafter referred to as "Murata"). This rejection is respectfully traversed.

Both Lee and the present application (invented by the applicant, Mr. Choi) are assigned to Samsung Electronics Co. Ltd. In addition, Lee qualifies as prior art under 35 U.S.C. §102(e). It is respectfully submitted that Lee and the claimed invention were, at the time the claimed invention was made, owned by Samsung Electronics Co. Ltd or subject to an obligation of assignment to Samsung Electronics Co. Ltd. Under 35 U.S.C. §103(c)(1), the Examiner cannot reject claims 1, 3, 4, 9, 10, 27-31, and 38 under 35 U.S.C. §103 by applying Lee.

Accordingly, withdrawal of this rejection is respectfully requested.

Rejection of Claim 5 Under 35 U.S.C. §103(a)

The Office Action rejects claim 5 under 35 U.S.C. §103(a) as being unpatentable over Lee and Murata, and further in view of U.S. Patent 4,730,364 issued to Tat-Kee. This rejection is respectfully traversed.

Both Lee and the present application (invented by the applicant, Mr. Choi) are assigned to Samsung Electronics Co. Ltd. In addition, Lee qualifies as prior art under 35 U.S.C. §102(e). It is respectfully submitted that Lee and the claimed invention were, at the time the claimed invention was made, owned by Samsung Electronics Co. Ltd or subject to an obligation of assignment to Samsung Electronics Co. Ltd. Under 35 U.S.C. §103(c)(1), the Examiner cannot reject claim 5 under 35 U.S.C. §103 by applying Lee.

Accordingly, withdrawal of this rejection is respectfully requested.

Rejection of Claims 7, 8, 32, and 33 Under 35 U.S.C. §103(a)

The Office Action rejects claims 7, 8, 32, and 33 under 35 U.S.C. §103(a) as being unpatentable over Lee and Murata, and further in view of U.S. Patent 6,012,714 issued to Worley et al. (hereinafter referred to as "Worley"). This rejection is respectfully traversed.

Both Lee and the present application (invented by the applicant, Mr. Choi) are assigned to Samsung Electronics Co. Ltd. In addition, Lee qualifies as prior art under 35 U.S.C. §102(e). It is respectfully submitted that Lee and the claimed invention were, at the time the claimed invention was made, owned by Samsung Electronics Co. Ltd or subject to an obligation of assignment to Samsung Electronics Co. Ltd. Under 35 U.S.C. §103(c)(1), the Examiner cannot reject claims 7, 8, 32, and 33 under 35 U.S.C. §103 by applying Lee.

Accordingly, the withdrawal of this rejection is respectfully requested.

Rejection of Claims 11-13, 16, 17, 21-23, 25, 34-36, and 39 Under 35 U.S.C. §103(a)

The Office Action rejects claims 11-13, 16, 17, 21-23, 25, 34-36, and 39 under 35 U.S.C. §103(a) as being unpatentable over Lee in view of Worley. This rejection is respectfully traversed.

Both Lee and the present application (invented by the applicant, Mr. Choi) are assigned to Samsung Electronics Co. Ltd. In addition, Lee qualifies as prior art under 35 U.S.C. §102(e). It is respectfully submitted that Lee and the claimed invention were, at the time the claimed invention was made, owned by Samsung Electronics Co. Ltd or subject to an obligation of assignment to Samsung Electronics Co. Ltd. Under 35 U.S.C. §103(c)(1), the Examiner cannot reject claims 11-13, 16, 17, 21-23, 25, 34-36, and 39 under 35 U.S.C. §103 by applying Lee.

Accordingly, the withdrawal of this rejection is respectfully requested.

Rejection of Claim 14 Under 35 U.S.C. §103(a)

The Office Action rejects claim 14 under 35 U.S.C. §103(a) as being unpatentable over Lee and Worley, and further in view of U.S. Patent 5,551,125 issued to Adams. This rejection is respectfully traversed.

Both Lee and the present application (invented by the applicant, Mr. Choi) are assigned to Samsung Electronics Co. Ltd. In addition, Lee qualifies as prior art under 35 U.S.C. §102(e). It is respectfully submitted that Lee and the claimed invention were, at the time the claimed invention was made, owned by Samsung Electronics Co. Ltd or subject to an obligation of assignment to Samsung Electronics Co. Ltd. Under 35 U.S.C. §103(c)(1), the Examiner cannot reject claim 14 under 35 U.S.C. §103 by applying Lee.

Accordingly, the withdrawal of this rejection is respectfully requested.

Rejection of Claims 18-20 and 37 Under 35 U.S.C. §103(a)

The Office Action rejects claims 18-20 and 37 under 35 U.S.C. §103(a) as being unpatentable over Lee and Worley, and further in view of Murata. This rejection is respectfully traversed.

Both Lee and the present application (invented by the applicant, Mr. Choi) are assigned to Samsung Electronics Co. Ltd. In addition, Lee qualifies as prior art under 35 U.S.C. §102(e). It is respectfully submitted that Lee and the claimed invention were, at the time the claimed invention was made, owned by Samsung Electronics Co. Ltd or subject to an obligation of assignment to Samsung Electronics Co. Ltd. Under 35 U.S.C. §103(c)(1), the Examiner cannot reject claims 18-20 and 37 under 35 U.S.C. §103 by applying Lee.

Accordingly, withdrawal of the rejection is respectfully requested.

Rejection of Claim 24 Under 35 U.S.C. §103(a)

The Office Action rejects claim 24 under 35 U.S.C. §103(a) as being unpatentable over Lee and Worley, and further in view of Tat-Kee. This rejection is respectfully traversed.

Both Lee and the present application (invented by the applicant, Mr. Choi) are assigned to Samsung Electronics Co. Ltd. In addition, Lee qualifies as prior art under 35 U.S.C. §102(e). It is respectfully submitted that Lee and the claimed invention were, at the time the claimed invention was made, owned by Samsung Electronics Co. Ltd or subject to an obligation of assignment to Samsung Electronics Co. Ltd. Under 35 U.S.C. §103(c)(1), the Examiner cannot reject claim 24 under 35 U.S.C. §103 by applying Lee.

Accordingly, withdrawal of the rejection is respectfully requested.

Summary

Claims 1, 3-5, 7-14, and 16-25, and 27-39 are pending and under consideration. It is respectfully submitted that none of the references taken alone or in combination disclose the present claimed invention.

There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.

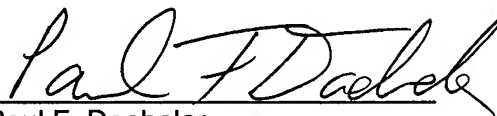
Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 19-3935.

Respectfully submitted,

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